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Voice and Song.—Bird calls in Nigeria, **Elgood**; Range of Lyrebird's voice, **Halafoff**; Recording problems, **McChesney**; Writing down bird song, **North**; Kokako, **Maning**; Analysis of Brown Towhee, **Marler** & **Isaac**; Physical analysis method, **Marler** & **Isaac** (1); Tape recordings, **Reynard**; Subspecific variations, **Smythies** (1); Blackbirds' song-learning when reared in acoustic isolation, **Thielcke-Poltz** & **Thielcke**; House Finch, **Thompson**, W. L.

Miscellaneous Habits.—Sea-birds and human fishing activities, **Boswall**; Anting, **Chisholm**; Winter flocking habits, **Erard** & **Hagner**; Birds playing with fire, **Goodman**; Anting by Junco, **Hailman** (6); Grackle anting with moth balls, **Borgelt**; Symbionts in Cattle Egret, **Jenkins** & **Ford**; Parents carrying young, **Labitte** (1); Sunbathing, **Medlicott**; Anting by British passerines, **Simmons** & **others**.

Food Habits: General.—Mollusca eaten by birds in South Australia, **Cotton**; Birds of Polar Urals,

Danilov; Russian study of young predatory birds, **Galushin** (2); Mole cricket as prey, **Gerber**; Feeding of the young, **Gyurkó** & **others**; Mineral salt need, **Heyder** (1); Feeding associations, **Hindwood** (1); Food of birds in N. Caucasus, **Medvedev** & **Petrov**; Fishing passerines, **Mester** (1); In wood thickets of Volga delta, **Skokova** (2); **Turček** (4).

Food Habits: Single Species.—Güldenstädt's Redstart, **Berne**; Hawk-Owl, **Bianchi** & **Koshkina**; Silver Gulls food parasitism on Pelicans, **Boehm**; Caucasian Snow-cock, **Chunikhin**; California Quail, **Crispens**, **Bass** & **Yocom**; Horned and Barn Owls, **Cunningham**; Black Kite and Sparrow-Hawk, **Danilov** (5); Eagle-Owl in Yakutia, **Egorov**; Ketrel and Red-footed Falcon, **Gibet** (1); Owl pellet study, **Huber**, R. L.; Young partridge, **Janda**; Insectivorous forest birds, **Kadochnikov** (1); Starling, **Khokhlova**; Woodpeckers, **Korolkova**; Herons in Volga delta, **Leus**; Bullfinch, **Newton**, I.; Little Brown Dove, **Ostapenko**; Spotted Eagle, **Prikionski** (1); Metronome experiments with feeding jackdaw, **Reinert**; Night-Heron, **Skokova** (4); Lesser Spotted Eagle, **Sladek**; Rough-legged Buzzard, **Sladek** (1).

Nidification: General.—Mixed gull and coot clutch, **Bochenski**; Nethboxes, **Cohen** & **Campbell**; Weaver-birds, **Collias**; **Crook**, H.; In large towns, **Doerbeck**; Influence of biotop, **Inozemtsev**; Nest-boxes in Sweden, **Jansson**; Role of tree architecture, **Meklenburtsev**; Sea-birds' habitat selection in Faroes, **Norrevang** (2); Popular note, **Rebousin**; Location of nests and flight of birds of prey, **Yakobi**.

Nidification: Single Species.—Goldfinch, **Bates**; Blue Whistling Thrush, **Borodikhin**; Unusual nesting of Rooks, **Burchak-Abramovich** & **Tusev**, **Galushin** & **Karpovich**; Demoiselle Crane, **Chekmenov**; Pied Flycatcher, **Danilov** (3); Flamingo, **Dolgushin** (1); White-throated Rockthrush in Amurland, **Neufeldt** (1); Serpent Eagle, **Galushin**, **Potapov** (1); Osprey, **Galushin** (1); Spotted Eagle, **Glotov**; Gulls, **Goethe**; Azure Tit, **Grachev** (1); Bullfinch, **Inozemtsev** (1); Semipalmated Sandpiper, **Kuzyakin**; Güldenstädt's Redstart, **Kydralliev**; Black Stork, **Lebedeva**; Indian Cuckoo, **Neufeldt**; Caspian Tern in Estonia, **Niklus**; Black-tailed Godwit, **Renno**; Lammergeyer, **Stegmann**; Indian Goose, **Stepanyan** (3); Flamingoes in the Camargue, **Swift**; and in Tunis, **Castan**; Gulls' nest objects, **Tinbergen**, N. (3); Pine Grosbeak and Waxwing, **Zimin**.

Nidification: Regional Studies.—Kazakhstan, **Dubrovski**; Switzerland, **Géroutet** (2); Western deserts, U.S.A., **Gullion**; Minnesota, **Lindmeier**; English nest record 1959, **Mayer-Gross**; Senegal dates, **Morel**; Ground-breeding birds in Forest-steppe zone, **Neufeldt** (1); Frankfurt-am-Main, **Pfeifer** & **Keil**; Black-throated Accentor in Tien Shan, **Vinokurov** (1).

Brood Parasitism.—Indian Cuckoo, **Neufeldt**.

Incubation and Fledging Periods.—An apparatus for recording nest-visits, **Semenov-Tian-Shanski**; House Wren, **Brackbill**.

Flight.—Flight characters of Glaucous Gull and Long-tailed Skua, **Bel'kovich**; Raptors, **Bodensen**, **Munck**; Wings as mechanical oscillators, **Greenewalt** (1); Albatross, **Jameson**; Wing size index, **Kipp**; Diving ducks and mergansers, terns, **Kirchner** (1); Differences between that of Spoonbill and of Glossy Ibis, **Kokshaishii**; Tit photographs, **Lanyon**.

(1); Gliding flight of the Fulmar, **Pennycuik**; Speed according to flock-size, **Preuss**; Biophysics, **Raspet**; General review, **Steinbacher**; Flight characters of Accipitridae, **Yakobi** (1); Slit-like structure of wing apex in hawks, **Yakobi** (2).

Homing and Orientation.—Physical basis of astromigration in birds, **Pennycuik** (1); Sense of time, **André**; Sun navigation, **Pumphrey**; Star-navigation, **Sauer**; Sun azimuth compass, **Schmidt-Koenig**; Carrier pigeon behaviour, **Wallraff**; Path finding experiments in a planetarium, **Wallraff** (1); Polish investigations, **Wojtusiak**.

Migration : General.—Radar observation, **Bloem**; Recent discoveries, **Dorst** (2); Radar problems, **Harper** (1); Radar "ring angels", **Eastwood, Isted & Rider**; Historical background, **Cooke, C. H.**; French studies, **Etchécopar**; Evaluation of an aural record of nocturnal migration, **Graber & Cochran**; Annual stimulus for spring migration, **Kendeigh & others**; Migration as zoogeographical problem, **Kumari** (1); Influence of weather, **Lack**; Height of migration flight, **Lack** (2); Swedish study, **Markgren M.** (1); Gonad reactions in birds crossing the equator, **Oordt**; In the arctic, **Portenko** (2); Celestial problems, **Stasz**; Problems, **Swinebroad** (1).

Migration : Single Species.—Teal, **Hoffmann, L.** (3); **Ryabov** (1); Loons in Estonia, **Jogi** (1); Slender-billed Noddy's invasion, **Kumari**; Mallard, **Larionov**; White Stork, **Lebedeva** (1); Bird of prey in U.S.S.R., **Lebedeva & Shevareva**; Caspian Tern in Estonia, **Niklus**; Chukor Partridge, **Popov**; Warblers in northern Europe, **Rendahl** (2); Cormorant, **Skokova** (1); Vagrant swallows in Crimea, **Spangenberg** (1); Goshawk in Kanin peninsula, **Spangenberg** (3); Herons in the Camargue, **Suchantke** (2); Chaffinch in Belgium, **Verheyen** (7); Chaffinch, **Vleugel**; Nocturnal migration of thrushes, **Vleugel** (1); Sandhill Crane east of Mississippi, **Walkinshaw**.

Migration : Regional Observations.—Migration and drift off Massachusetts, **Baird & Nisbet**; The Wash, **Barry**; Raptor in Malaya, **Batchelor** (2); Massed waterfowl flights in Mississippi Flyway, **Bellrose & Sich**; Saxony, **Berndt & Moeller**; White Sea, **Bianchi, Flerov & Skalinov, Kokhanov & Skokova, Skalinov, Skokova**; Hibernation in Novaya Zemlya, **But'ev**; Kazakhstan, **Chel'tsov-Bebutov & Kozhevnikova**; Ibadan, Nigeria, **Elgood**; Southwest Spain, **Feeny**; S.E. Transbaikial, **Gavrin & Rakov**; Borneo, **Harrison**; Waterfowl in Estonia, **Jogi, A. I.**; Kites at Lake Tanganyika, **Ulfstrand**; Kyzyl Kum desert, **Krivoshchev**; Murman coast, **Kurochkin & Gerasimova**; North Sea radar studies, **Lack** (1); Autumn "drift migration" on east coast of England, **Lack** (3); Scottish drift-migration, **Lack** (4); Alps, **Lohmann**; In north-eastern Atlantic, **McLean & Williamson**; Between Greenland and Iceland, **McLean & Williamson** (1); Kutch, **Mathew**; Falsterbo, S.W. Sweden, **Mathiasson** (1); Western France, **Michaud**; Greece, **Moreau** (3); Terns in Denmark, **Nørrevang** (3); Black Sea coast of the Caucasus, **Ptushenko**; Morocco, **Robin**; New York State birds in Colombia, **Rusk**; Palaearctic birds in South-west Africa, **Sauer & Sauer**; Vandois, Switzerland, **Simms**; Palaearctic migrants through Eritrea, **Smith, K. D.**; Caspian Sea, **Spangenberg** (2); Tunisia, **Steinbacher, J.** (5); Estonia, **Tamm**; European part of the U.S.S.R., **Teplav & others**; Kurisches Haff, **Valkievichus**; Autumn in Morocco, **Vaughan**; Tian Shan, **Vinokurov** (2);

Waterfowl hibernation on Black Sea and Sea of Azov, **Vinokurov & others**; Hibernation on N. Caspian Sea, **Zaletaev & others**.

Bird-Ringing : Methods.—Handling birds, **Cornwallis & Smith**; Goose-netting in the Netherlands, **Eygenraam**; Its scientific value questioned, **Goethe & Kuhk**; Trapping methods, **Hollom & Brownlow**; Mist nets, **Low**; Poland, **Nowak**; Russian trap, **Prikonsky**; East Africa, **Reynolds**; Russian automatic ringing experiments, **Romanov**; African quail trap, **Roser**; In Greenland, **Salomonsen**; Mist-netting woodcocks, **Sheldon**; Penguin flipper-bands, **Sladen & Penney**.

Bird-Ringing : Results.—Murman coast and White Sea in 1936-1958, **Bianchi & Gerasimova**; New Zealand ducks, **Balham & Miers**; Australian scheme 1953-60, **Carriack**; Görlitz, **Creutz**; Col de Bretolet, Switzerland, **Crousaz**; Congo, **De Bent**; Chimney Swift, **Dexter**; Ukraine, **Fedorenko**; Falsterbo, Sweden, **Fritz & Nilsson**; A much-banded Redshank, **Grosskopf** (1); Australia, **Hitchcock & Carriack**; Camargue, **Hoffmann, L.**; Tour du Valat, France, **Hoffmann & Lévêque**; Denmark, **Johansen, H., Petersen & Preuss**; Netherlands, **Kate & Taapken**; Hungary, **Pátkai, Keve** (2); Hungarian birds in Africa, **Keve & Pátkai**; Great Britain and Ireland, **Leach, Spencer**; White Stork in U.S.S.R., **Lebedeva** (1); Finland, **Nordström** (1); Waders in Europe, **Nørrevang** (1); Morocco, **Panouse & others**; Russian stations, **Pawlowski & Belopolski**; Common Gull, **Radford**; Garganey in U.S.S.R. in 1925-1956, **Ryabov**; Bird-ringing records, **Rydzewski**; Recoveries in Mediterranean islands, **Rydzewski** (2); Balearic Islands, **Rydzewski & Tato Cumming**; Ducks and coot in U.S.S.R., **Sapetin & Shevareva**; West Africa, **Sharland, R. E.**; Geese and other birds in N. Russia, **Shevareva**; Lithuania in 1929-1956, **Skuodis**; Portugal, **Tait**; Spain, **Bernis**; Sweden, **Tolstoy**; Belgium, **Verheyen**; Heligoland and Radolfzell, **Zink**; Germany, **Zink**.

Ecology : Regional Studies.—Hazaribagh national Park, Bihar, India, **Ara**; Forest communities in the Apostle Islands, Wisconsin, **Beals**; Bird populations and forest succession in Ontario, **Martin, N. D.**; In regularly spaced pine woods, **Bruns**; Birds bring plant-life to Heligoland pond, **Christiansen**; Forest zone in U.S.S.R., **Dubin & Toropanova**; Ecology of birds in Slovakian rice fields, **Feriancova-Másárova**; French forest birds, **Ferry**; Tits and Goldcrests in pine plantations, **Gibb** (1); Vegetation of term and gannet colonies in New Zealand, **Gillham, M. E.**; Californian forests, **Hagar**; Along German motor roads, **Hamann**; Primeval forest at Boubin, Czechoslovakia, **Klima**; Bookham Common, **Melluish**; A tropical wet forest in Costa Rica, **Slud**; Pechora taiga in N. Urals, **Teplav**; Birds of African townships, **Winterbottom** (4).

Population Studies.—Woodpeckers in spruce-fir forests of Colorado, **Amman & Baldwin**; Birds of prey in a Hampshire preserve, **Ash** (1); Bird-bath counts, **Breckenridge**; Mute Swan in England and Wales, **Campbell, B.**; Tufted Duck and Common Pochard in Czechoslovakia, **Cerny**; In England generally, **Christian**; Antarctic sea-bird logs, **Dell**; In relation to game management, **Diem**; Wildfowl in north Scotland, **Eltringham & Boyd**; Size and composition in passerines breeding season, **Enemar**; White Stork in Bryanks region, **Fedosov**; Census of White Sork in Belorussian S.S.R., **Krapivnyi**; White

Stork in U.S.S.R., **Lebedeva** (1); Hawks and owls in Illinois, **Graber & Golden**; Kapiti Island, N.Z., **Kikkawa** (1); Niche size and faunal diversity, **Klopfer & MacArthur**; Bird distribution in north-west Pacific, **Kuroda** (8); Waterfowl in Switzerland, winter 1957-58, **Leuzinger**; Marking pheasants, **Lindmeir**; Gulls on lakes in Estonia, **Ling**, R. G.; 7 years on a Belgian estate, **Maho**; Population dynamics, **Meunier** (2); At Russian forest experimental station, **Moravov & Smolin**; Russian study of forest bird density in eastern Europe, **Novikov**; Use of recorded bird songs, **Oech**; Finnish winter census 1958/59, **Rajala & Törnroos**; Line transects value, **Royama**; Waterfowl at Barberspan, Transvaal, **Shewell**; By mist-netting and ringing, **Stamm, Davis & Robbins**; Volga delta, **Syroechkovski**; Game-birds in N. Urals, **Teplav**; Evaluation of quantitative studies, **Udvardy**; Terrestrial birds in tundra, **Uspenski** (4); Ducks in Hamburg, **Volkman**; Red Grouse in Scotland, **Wynne-Edwards, Jenkins & Watson**.

Conservation.—South Africa, **Anon.** (4); Finnish Game Research, **Abstracts**; Waterfowl in a Californian marsh, **Anderson**, W.; Mice in nest-boxes, **Balat & Pelikan**; Eagles in Pyrenees, **Bassouls & Petit**; Agricultural poisons, **Borg**; Methods, **Bruns** (3); Position in Switzerland, **Burchhardt, Sahwarz, M.**; South African nest-boxes, **Büttiker** (1); South Australia, **Boehm, Condon, Newland, Schodde**; Late nesting of water birds in South Texas, **Cottam & Glazener**; Pesticide peril in Tennessee, **Dow**; Birds in danger in western Mediterranean, **Etchécopar & Hue**; Controlled goose shooting in Michigan, **Friley**; East Germany, **Grafe** (1); Protection efforts, **Guntén**; Greece, **Hatzisarantos & Kanellis**; Birds of Prey, **Jahn & Deetjen**; Netherlands, **Jonge**; France, **Julien** (1), **Murat**; Birds menaced in Yugoslavia, **Koroneisl-Rucner**; Winter feeding of wild turkeys, **Latham**; Woody cover plantings for pheasants, **Lyon**; 12th I.C.B.P. Conference, **McClure**; Plans for Greece and Turkey, **Makatsch**; Scania, Sweden, **Malmberg**; Scientific considerations, **Meunier**; Value of farmland for waterfowl, **Milonski**; Nest-boxes for Wood Ducks in California, **Naylor**; Irreversible drainage in waterfowl management, **Neely**; Plea for albatross on Midway, **Owre, Pohl**; Wildfowl nesting study in California, **Rienecker & Anderson**; Threatened species, **Sala de Castellarnau**; California waterfowl refuges, **Scheffer**; Threatened species in S.E. Asia, **Talbot**; Development of steppes and Bustards, **Tupikova & Chel'tsov-Bebutov**; Waterfowl of Waigach I., **Uspenski, & Chernov**; Francolin in Azerbaijan, **Wershchagin**; South Africa, **Vincent**; Wide-row corn for game management, **Vohs**; Quail in Texas, **Wallmo & Uzzell**; White Stork in Japan, **Yamashina & Takano**.

Economics.—Canadian migratory birds Act, **Anon.** (8); After effects of light control in chickens, **Abplanalp & Wilson**; Birds and plants, **Ali**, S. A.; Plumage trade, **Berlioz** (2); Testing ducks' eggs for fertility, **Bonnet**; Gulls and terns, S. Russia, **Borodulina** (1); Birds in forests, **Bruns** (1); Bird protection and pest control, **Bruns** (2); Useful birds, **Buchheister, Gentz** (2); Artificial nests in South Asia, **Büttiker**; Breeding behaviour of Shrike, oriole and woodpecker beneficial in China, **Chien & Cheng**; Predators and their prey, **Christian** (1); War on wild life, **Day**; Inimical effects of pesticides, **Day**, J. W., **Hunt & Bischoff**; Influence of man in New Zealand, **Dell**, (1); Birds and forests, **Fitter**; Black Kite and birds **Galushin** (3); Tits and fir-cone caterpillars, **Gibb**;

Birds of prey and rodents, **Gibet** (2); Bird depredations, **Giltz**; Waterfowl in ricefields, **Harmon**; Swan menace, **Harrison**, J. G. (3); European Starling in California, **Howard**; Peru's problem, **Idyll**; Insectivorous forest birds, **Kadochnikov** (1); Fowl breeding, in Egypt, **Kamar**; Birds and caterpillars, **Keve & Reichard**; Starling and pest control, **Khokhlova**; Carrion Crow and Herring Gull at muskrat farm, **Khusainov**; Tree-ringing by woodpeckers, **Klima** (1); Rumanian forest birds, **Korodi**; Woodpeckers in steppe woods, **Korol'kova**; Turkey research, **Laverton**; Birds of prey and rodents, **Kozlov**; Gull food habits, **Merrell**; Salmon predators, **Mills**, D. H.; Wood Pigeon nest destruction effect, **Murton** (1); Control of Wood Pigeons, **Murton** (2); The Quelea problem, **Naude**; Trapping of starlings for eating in Spain, **Parsons**, J. J.; Factors influencing number of feeding rooks, **Pinowsky**; Cormorants in S. Tadzhikistan, **Potapov** (2); British poultry standards, **Poultry World**; Guano-producing birds of South Africa, **Rand**, R. W. (1); Guano-producing sea-birds biology, **Rand**, R. W. (3); Importance of birds in steppe forest shelter plantings, **Rashkevich**; Damage by woodpeckers, **Reilly**; Birds and forestry, **Reimers**; Pigeon problem in cities, **Ringleben** (2); Duck catching in Iceland, **Sellick**; Woodpeckers in silviculture, **Sestvyanov**; South African farm birds, **Skead**; Spoonbill and fishery, **Skokova**; Attracting insectivorous birds, **Sviridenko**; Colorado beetle control by birds, **Szczepalski**; Use of narcotics for bird catching, **Thearle**; Economic ornithology, **Thompson**, H. V.; Natural control of insects in pine-woods, **Tinbergen**, L.; Damage to power and communication lines, **Turček** (1); Artificial egg hatching, **Wilkins**; Avian uptake of fission products, **Willard**; Importance of the Bullfinch, **Wright & Summers**.

Introduction and Naturalization.—Chukar Partridge in drought areas, **Christensen**, G. C.; European birds in overseas lands, **Gebhardt**; Spice Finch in Queensland, **Immelmann** (2); Attempt to establish colony of Yellowheaded Blackbirds, **McCabe & Hale**; Cattle Egret spreading in America, **Meyerriecks**; Pied Flycatcher and Great Tit in forest-steppe groves, **Shcherbakov**; Partridges and pheasants in southeastern Washington, **Swanson & Yocom**; Bob White Quail in Suffolk, **Tollemache**; Danish partridges in New Zealand, **Westerskov** (4).

Aviculture.—Cage birds, **Blagosklonov** (1); Penguins in Antwerp zoo, **Carpentier**; Incubation of ducks' eggs, **Conway** (1); In Mexico, **Dávila**; Sunbirds, **Everitt**; Breeding results, **Everitt** (1); Peking zoo, **Grummt**; Effect of sunshine, **Hartmann**; Coackatoos, **Kendall**; Owls in San Diego zoo, **Lint** (1); Behaviour of small exotics, cages, **Michaelis**; Berlin Zoo, **Petzold**; Cult of the budgerigar, **Watmough**.

Longevity.—Curlew 31 years old, **Kuhk**; Cage-birds, **Prestwich**; **Shevareva** (1); Swift, **Weitnauer** (1).

Parasites.—Mallophaga, **Ash**; Nematodes, **Bashkirova**; Ticks, **Cerny & Balat, Drozdova & others, Theiler**; Parasites of Passeres, **Dubinina & Kulakova**; Midges in ducks' nests, **Hudec**; Sparrows infected by mites, **Ilyenko**; and ticks, **Somashko**; Helminths of Loons, **Kontrimavichus & Bakmet'eva**; Haematozoa of Australian birds, **Mackerras**; Nematodes in pelican, **Oglesby**; flukes in Steller's Jay, **McNeil**; Mallophaga from North American birds, **Malcomson**; *Trichinella* spread by birds, **Kerkushev**; Helminths of King-Eider, **Ryzhi-**

kov; *Ixodes* on goose, **Stübs** (1); In Eider Ducks, **Swennen & Brock**; Tick hosts in Crimea, **Vshikov**; On African birds, **Zumpt**; Analgesoidea from Bulgaria, **Vassilev**.

Enemies and Defence.—Piracy of hawk on falcon, **Beebe**; Coot and Eagle, **Bender**; Escape behaviour, **Bont**; Recognition of disease by predators, **Harrison**, J. M. & J. G. (1); Snakes in nests, **Hue**; Raccoons and waterfowl, **Llewellyn & Webster**; Swedish study, **Markgren**, M.; Small birds mobbing hawks, **Mohr**; Desert birds, **Niethammer**; Eagle killing Vultures, **Pitman** (1); Eagles and geese, **Sakane**; An air bath, **Smyth**, T.; Woodpeckers versus starlings, **Stülcken**; Gull robs gannet's nests, **Taylor & Wodzicki**.

Pathology and Disease.—Di Carlo; Tuberculosis in Pochard, **Harrison**, J. M. & J. G. (1); Aspergillosis in waterfowl, **Herman & Sladen**; Lead poisoning, **Hunt**; Avian botulism, **Jensen & Allen**; Arthropod-borne viruses, **Johnson**, H. N.; Migratory birds and dispersal of malaria, **Laird**; Birds as carriers of tick-borne disease, **Mishchenko**; Pasterrellosis in gulls, **Poldvere**; Fowl pox in Carrion Crow, **Poulding**; Arterial disease in captive birds, **Rigg**; *Leucocytozoon* disease, **Savage & Isa**; Are Antarctic birds "bacteriologically sterile"? **Sieburth**; Ornithosis, **Sudmann**; Knemidokoptic mange of Budgerigars, **Yunker & Ishak**.

Mortality.—Oil menace, **Bornstedt**, Nordh; Trapped by sedge, **Bond**, R. M.; Insecticides and lighthouses, **Conder**; Ectoparasites and nest fauna of rooks and jackdaws, **Coombs**; Pesticides, **De Witt & others**; Oil pollution of the seas, **Giles & Livingstone**; Smog, **Dowsett**; Effect of DDT on partridges, **Fedorenko & Tkachenko**; Oiled swift, **Finnis**; Road casualties, **Finnis** (1); Lead poisoning, **G**; Death from large windows, **Giller**; On English roads, **Govett, Hodson**; Duck choked by ryegrass, **Harrison & Olney**; Loss of feet, **Harrison**, J. M., **Sage**; Rubber band in tern's stomach, **Hocken**; Lead-poisoning of ducks in the Camargue, **Hoffmann**, L. (2); Trapped by a clam, **Jones**, S.; Shore-birds, **Kosbab**; Common Eider nestlings, **Kulachkova**; Storm death in Sweden, **Larsson**; Tits killed by pest control, **Mayer**; Swallows taken by tigerfish, **Oatley**; Lead poisoning in wildfowl, **Olney**; Lead poisoning in swans and its treatment, **Rosen & Bankowski**; Pelicans killed by sharks, **Steele**; Strangling risks, **Wible**; Ostriches in Munster Zoo, **Zukacsky**.

III.—DISTRIBUTION

(a) GEOGRAPHICAL

PALAEARCTIC REGION

British Isles.—Campbell, B., **Fitter** (1), **Nisbet**, **Pyman**.

England.—London, **Frémont**, **Cramp**, **Homes**, **Sage & Spencer**, **Parslow & Medhurst**, **Parker**, **Homes**, **Sage & Spencer**; London, **Hurcomb**; Ruislip, **Middlesex**, **Bedford & others**; Epsom, **Surrey**, **Rook**; Reading, **Balch & Jones**; Hastings, **Sussex**, **Ticehurst**; Kent, **Gillham**; Hampshire, **Bryant**, **Cohen & others**; Isle of Wight, **Stafford**; Hertfordshire, **Lloyd-Evans**, **Sage**; Essex, **Freeman**; Cambridge, **Evans**, P. R.; Norfolk, **Seago**; Lowestoft, **Barsted**; Lincolnshire, **Cornwallis & Townsend**; Wiltshire, **Barnes**, **Boyle & Vernon**; Warwickshire, **Bradford**; Cotteswold, Gloucestershire, **Char-**

teris & Swaine; Bristol, **Chadwick & others**; Dorset, **Bull**, A. J. & others; Somerset, **Savory & others**; Cornwall, **Parsons**, A. G.; Morecambe Bay, Lancashire, **Rigby**; Yorkshire, **Chislett**, **Dickens**, **Fenton & Lee**; Malham, Yorkshire, **Holmes**; Northumberland and Durham, **Gray**, **Grey**; Cumberland, **Allen**, J. W., **Robson**, **Stokoe**.

Wales.—Harris, M. P., **Lockley**; Skokholm, **Barham**; Glamorgan, **Salmon**.

Scotland.—Campbell, J. W., **MacMillan**; North Rona, **Boyd**, J. M. (1).

Ireland.—Anon. (7), **Ruttledge**.

Smaller British Islands.—Bardsey, **Arthur**; Farne Is., **Hickling**, G.; Isle of Man, **Brun**; Shetland Is., **Hoffmann**, H.; St. Kilda, **Boyd**, J. M., **Egging**.

Channel Islands.—Jersey, **Graham**, C. S.

France.—Erard, **Ferry**; St. Malo, **Brosselin**; Houat I., **Baudouin-Bodin & Morio**; Brittany, **Julien**; Finistère, **Bozec**, **Lebeurier**; Haute-Maurienne, **Brosse & Jacquemard-Brosse**; Côte d'Or, **Blondel**; Hyères, **Besson**; Côte d'Azur, **Stein**, W.; Vienne, **Lohmann** (1); Camargue, **Haller**, **Hoffmann**, **Perot**.

Belgium.—Delvingt, **Rappe & Ruwet**, **Suetens**; Coemans & others; Maastricht, **Kemp**.

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Switzerland.—Crousaz, Géroudet, Roux, Sermet, Glutz von Blotzheim & Willi, Hauri; Graubundens, Corti & Melcher; Ticino grotto, Colti.

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Austria.—Klimsch, Sauerzopf, Sigl & Wruss, Zapf, Wettstein-Westersheimb; Burgenland, Aumüller, Koenig, Sauerzopf, Socher; Tyrol, Emels; South Tyrol, Axt, König, Mühlenberg, Oelke.

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Bulgaria.—Mauersberger.

Italy.—Brandolini, Di Carlo, Foschi, Giol, Moltoni; Montecristo, Guerra; Gran Paradiso, Moltoni; Rome, Malmerendi.

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AUSTRALIAN REGION and POLYNESIA

Australian Commonwealth.—Hewitt, McGill, Sharland, M., Learmonth; Tasmania, Mollison; Great Barrier Reef, Gillet & McNeill; Queensland, Amiet, Liddy; Noosa Heads, Queensland, Seaton; New South Wales, McGill; Sydney, N.S.W., Haines, Hindwood; South Australia, Boehm, Condon, Newland, Schodde, Cotton, Ellis, Wheeler; Western Australia, Immelmann (1), Storr.

New Zealand.—Adams & others, Andrew, I. G., Child, Bell, Hall-Jones, Williams, G. R., Kikawa, Stein, Sibson, Sibson & McKenzie, Soper, Jackson, Newcombe, Wilson, R. A., Westerskov; Gisborn Is., Bell & Blackburn; Campbell I., Westerskov (3); Hutt Valley, Secker; Kapiti Island, Kikawa (1).

Pacific Islands.—Hawaii, Bryan; Galapagos Is., Scott, P.; Christmas I., Gallagher; Midway, Fisher, H. I.; New Guinea, Assem; Gilbert and Ellice Is., Child; Pitcairn Is., Williams, G. R.; Lord Howe I., Paramonov; Abrolhos Is., Ford, J. (1).

ETHIOPIAN REGION

West Africa.—Dekeyser, Condamin & Derivot; French Equatorial Africa, Malbrant, Roux, Dragesco; Tchad, Gillet; French Guinea, Berlioz & Roche; Portuguese Guinea, Frade & Bacelar; Nigeria, Elgood; Cameroons, Jeannin & Kieffer; Congo, De Bont, Herroelen, Curry-Lindahl (3), Schoute-den; Parc national du Niokolo-Koba, Dekeyser; Mount Kabobo, Congo, Prigogine; Gabon, Malbrandt & MacLachy; Gabon and Moyen Congo, Rand, Friedmann & Traylor; Principe Is., Frade; Angola, Hall, B. P., Ripley & Heinrich, Pereira, Taylor, M. A.

South Africa.—Cape Province, Uys, Winterbottom; Kalahari, Labuschagne, Smithers; South-West Africa, Maclean; Orange Free State, Brooke; Sandwich Harbour, Transvaal, Prozesky; Potchefstroom, Transvaal, Brandt, H. D.; Kruger National Park, Anon. (5), de Villiers.

Madagascar.—Dorst (1), Milon (1); Comoro Is., Benson.

Mauritius.—Newton, R.

Central and East Africa.—Blancou, Kittenberger; Eritrea, Smith, K. D.; Ethiopia, Toschi; Atbara, Sudan, Christensen, N. H. (1); Upper Nile Valley, MacLeay; Uganda, Kilham (3), Bere, Pitman; Kenya, Williams, J. G.; Port Herald, Nyasaland, Long; Tanganyika, Probyn, Thomas, Vesey-Fitzgerald & Beasley; Northern Rhodesia, Benson; Mozambique, Pinto.

ORIENTAL REGION

Indian Peninsula and Ceylon.—Norris, C. E.; Jabalpur, Vaidya; Duars, Inglis; Sundubans, Law, Mukherjee; Kutch, Ali, Himmatsinhji, Mathew, Shekar; Nepal, Biswas (2), Fleming; Ceylon, Deraniyagala, Peries.

Malaysia.—Malaya, Allen, F. G. H., Tweedie; Gunong Tahan, Madoc.

Indonesia.—Delacour (3); Vietnam, Tien; Philippine Is., Parkes (1), Rand & Rabov; Borneo, Batchelor, Pfeffer, Smythies; Sarawak, Goodwin, J. F., Smythies, Voous; North Borneo, Batchelor (1).

NEOTROPICAL REGION

Central America.—Costa Rica, Slud; Guatemala, Smithe & Land.

West Indies.—Berlioz (1); Puerto Rico, McCandless.

South America.—Curaçao, Haverschmidt; Colombia, Haffer, Olivares; Ecuador, Marchant; Argentine, Olog; Tucumán, Argentina, Esteban, Olog; Brazil, Barth, Sick; Para, Brazil, Novaes; Montevideo, Legrand.

NEARCTIC REGION

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U.S.A. Pacific Coast and Rocky Mts.—Oregon, Porter, Walker, A.; California, Arnold, Dixon, Richardson, Yocom; Death Valley, California, Wauer; Farallon Is., California, Thoresen; Utah, Behle; Idaho, Burleigh.

U.S.A. South Western.—New Mexico, Huey, W. S., Zimmerman, D. A.; Texas, Henderson.

U.S.A. North Central.—North Dakota, Summers; South Dakota, Habeger; Nebraska, Ford, N. L., Rapp, Baumgarten & Moser; Minnesota, Allin, Janssen, LeFebvre, Lupient, Dickerman & Parkes, Huber (1), Erickson & Farnes, Lee, Seabloom, Michigan, Kenaga; Kansas, Johnston, R. F.

U.S.A. South Eastern.—Arkansas, Wilhelm; Tennessee, Finucane, Ganiar, Ogden, Walkinshaw; Florida Everglades, Truslow (2).

U.S.A. North Eastern.—New York, Brockner, Meritt, Foley, Eaton & Benton; New York City, Bull, J. L.; Massachusetts, Forbes & O'Regan; Delaware, Post; New Jersey, Fowler; Island Beach Park, New Jersey, Martin, W. E.; Pennsylvania, Broun.

Canada.—Godfrey; Niagara, Sheppard, R. W.; Quebec, Ouellet; Cap des Rosiers, Quebec, Manville; Ontario, Allin, Baillie; Thunder Bay, Ontario, Denis; Manitoba, Keith; Ellesmere I., Parmelee & MacDonald; Saskatchewan River, Houston & Street; Maritime Provinces, Bartlett; British Columbia, Mills, E. L., Weeden; Victoria, B.C., Davidson; Adelaide Peninsula, N.W.T., Macpherson & Manning; Foxe Basin, N.W.T., Ellis & Evans; Arctic, Höhn, Hanson & Currie, Irving, Childs & Maher, Hansen, H. A., Maher, Kenyon & Brooks, Kessel, Kessel & Schaller.

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